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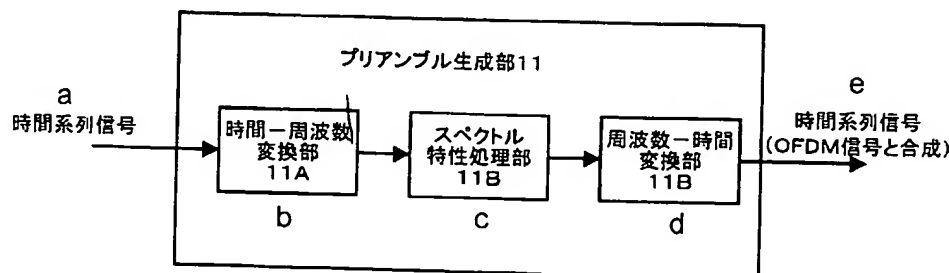
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- (71) 出願人 (米国を除く全ての指定国について): ソニー株式会社 (SONY CORPORATION) [JP/JP]; 〒1410001 東京都品川区北品川6丁目7番35号 Tokyo (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 鈴木 三博 (SUZUKI, Mitsuhiro) [JP/JP]; 〒1410001 東京都品川区北品川6丁目7番35号 ソニー株式会社内 Tokyo (JP).
- (74) 代理人: 山田 英治, 外 (YAMADA, Eiji et al.); 〒1040041 東京都中央区新富一丁目1番7号 銀座ティークエビル 澤田・宮田・山田特許事務所 Tokyo (JP).
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(54) Title: TRANSMISSION DEVICE, TRANSMISSION METHOD, AND STORAGE MEDIUM

(54) 発明の名称: 送信装置及び送信方法、並びに記憶媒体



a... TIME-SERIES SIGNAL

11... PREAMBLE GENERATION SECTION

b... TIME-FREQUENCY CONVERSION SECTION 11A

c... SPECTRUM CHARACTERISTIC PROCESSING SECTION 11B

d... FREQUENCY-TIME CONVERSION SECTION 11B

e... TIME-SERIES SIGNAL (COMBINED WITH OFDM SIGNAL)

(57) Abstract: It is possible to preferably transmit a time-series signal of a known pattern as a preamble and an OFDM modulation signal. In communication, by defining a preamble and detecting a peak of interactive relationship, synchronization may be detected. The preamble in this case is often defined by a binary value for simplifying a correlation detection device. In this case, the spectrum may be clapped out and the correlation characteristic may be deteriorated. In this invention, while maintaining the phase of the spectrum of the preamble pattern of the transmission side, the amplitude is forced to be adjusted, thereby improving the spectrum and correlation characteristic while simplifying the correlation detection device of the reception side.

[Name of Document] ABSTRACT

[Abstract]

Disclosed is a method that preferably performs transmission processing to a time sequence signal of a known pattern as the pre-amble and an OFDM transmitted signal.

In data communications, the general practice defines the pre-amble and detects the peaks of the mutual correlation to thereby detect synchronization. The pre-amble here is defined by the binary value in most cases for simplification of a correlation detecting device. In this case, the spectrum becomes irregular with sharp peaks and dips, which deteriorates the correlation characteristic. The method of the invention forcibly adjusts the spectrum amplitude of the pre-amble pattern on the transmitting side while retaining the phase information thereof, and thereby the method improves the spectrum and correlation characteristics while securing simplification of a correlation detecting device on the receiving side.

[Selected Drawing] Fig. 1